Notice of Allowability	Application No.	Applicant(s)	
	10/075,032	BRINKLEY ET AL.	
	Examiner	Art Unit	
	Shaima Q. Aminzay	2684	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *January 21, 2005*.

2. ☒ The allowed claim(s) is/are *1-12 and 14-20*.

3. ☒ The drawings filed on *21 January 2005* are accepted by the Examiner.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☐ All b) ☐ Some* c) ☐ None of the:
      1. ☐ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date May 19, 2004
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

Allowable Subject Matter

1. Claims 1-12, and 14-20 are allowed.

Reasons for Allowance

2. The following is an examiner's statement of reason for allowance:

The applicant filed amendment on January 21, 2005 in response to office action mailed December 2, 2004, and the amendments to the independent claims 1, 11, and 20 overcome the prior art rejection which puts the application in conditions for allowance.

None of the prior art of the record either singularly or in combination teaches or fairly suggests the following underlined limitations

"A method for remotely downloading data to a selected one of a plurality of avionics line replaceable units (LRUs) on an aircraft, said method comprising: transmitting a message wirelessly to a receiver on the aircraft identifying an LRU to which data is to be downloaded; remotely operating a software-controlled switch to electronically configure a communication path between identified LRU and an aircraft data services link (ADSL) in response to an command from the

receiver identifying the LRU and wirelessly downloading data from the receiver the identified LRU utilizing the remotely electronically configured communication path" as disclosed in claim 1.

"An apparatus for remotely downloading data to a selected one of a plurality of avionics line replaceable units (LRUs) on an aircraft, said apparatus configured to: receive a message wirelessly transmitted to the aircraft identifying an LRU to which data is to be downloaded; remotely operating a software-controlled switch to electronically configure a communication path between the identified LRU and an aircraft data services link (ADSL) in response to an command from the receiver identifying the LRU and wirelessly download data to the identified LRU utilizing the remotely electronically configured communication path" as disclosed in claim 11.

"An apparatus for downloading data to a selected one of a plurality of avionics line replaceable units (LRUs) onboard an aircraft, said apparatus comprising: a wireless radio transceiver configured to receive a message identifying at least one of said LRUs to which data is to be downloaded; a communication management unit server responsive to a command from said wireless radio transceiver identifying the selected LRU; and a remotely controllable software-controlled electronic switch responsive to said communication management unit server to electronically configure a data path between said wireless radio transceiver and the selected LRU for downloading of data from the wireless radio transceiver to the selected LRU" as disclosed in claim 20.

Cited reference Wright (Wright et al., US Patent No. 6,160,998) disclose method for exchanging data to and from an aircraft using a spread spectrum transceiver that downloads data as the aircraft approaches the destination airport a system and method of retrievable record of the flight performance of an aircraft and allows exchanging of data to and from an aircraft, and "a ground data link unit obtains flight performance data", and the "spread spectrum transceiver is coupled to an archival data store that has accumulated and stored the flight performance data", and the "transceiver downloads both the flight performance data and data messages over the spread spectrum communication signal as the aircraft approaches the destination airport and after the aircraft completes its flight and lands at the airport". In related art Houlberg (Houlberg et al., US Patent No. 5,307,505) discloses a rapid reprogramming terminal (RRT) for reprogramming electronic systems on board an aircraft that includes a front panel 43, which includes a power switch 44, a reset switch 45, a mux/direct switch 46, adown/up switch 47, a verify/load switch 48 and an execute/skip 49, and the power switch 44 turns power on and off to RRT, reset switch 45 resets RRT and mux/direct switch 46 directs the loading of data into the on board systems, the down/up switch 47 allows data to be loaded from RRT to the on board system, the verify/load switch 48 allows data to be either up-loaded or down-loaded to/from RRT depending on the position of switch 47, the operator presses the switches to load the data file,. the switches 44-49 are mechanical switches operated in response to manual manipulation by an operator located at the RRT

front panel 43.

However, the cited reference Wright in view of Houlberg do not expressly teach "remotely operating a software-controlled switch to electronically configure a communication path between the identified LRU and an aircraft data services link (ADSL) in response to an command from the receiver identifying the LRU and wirelessly download data to the identified LRU utilizing the remotely electronically configured communication path", and "a remotely controllable software-controlled electronic switch responsive to said communication management unit server to electronically configure a data path between said wireless radio transceiver and the selected LRU for downloading of data from the wireless radio transceiver to the selected LRU".

For these reasons, independent claims 1, 11, and 20 are allowed. Claims 2-10 are depend on the independent claims 1, claims 12, 14-19 are depend on the independent claim 11. Claims 2-10, 12, 14-19 are allowed under the same reasons set forth in claims 1, and 11.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shaima Q. Aminzay whose telephone number is 703-305-8723. The examiner can normally be reached on 7:00 AM -5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 703-308-7745, the primary examiner, Nick Corsaro can be reached on 703-306-5616. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shaima Q. Aminzay

(Examiner)

June 5, 2005

NICK CORSARO
PRIMARY EXAMINER

Nick Corsaro

(Primary Examiner)

Art Unit 2684